

Minutes of the 1st Nuclear and Particle physics Facility Committee

Date: March 22, 2003

Place: KEK 4-345

Attendance:

J. Arvieux, H. En'yo, K. Imai, T. Kajita, D.R. Marlow, T. Ohshima, J.-C. Peng,
T. Yamanaka, M. Oka, Y. Okada, J. Imazato, Y. Yamazaki, T. Kobayashi,
T. Nagae, K.H. Tanaka, K. Yoshimura

In the beginning of the Committee, we elected a chairperson, a vice-chairperson, and a secretary as follows;

Chairperson: Taku Yamanaka,
Vice-Chairperson: Hideto En'yo,
Secretary: Tomofumi Nagae.

In the open session, we heard five status reports,

“Status of J-PARC” by S. Nagamiya,
“50-GeV synchrotron” by Y. Mori,
“Construction status of NP facility” by J. Imazato,
“Beamlines and Equipment R&D” by K.H. Tanaka, and
“Summary of LoI's” by T. Nagae.

We then heard a presentation for the LOI-12, “Neutrino Oscillation Experiment at JHF”, by K. Nishikawa.

The Committee was asked to make some advice on the following subjects.

1. Process to evaluate LoI's and to select Day-one experiments
2. Evaluation of JHF-□ experiment
3. Policy for NP Hall design and construction
4. Policy for NP Hall beamline installation
5. Proton beam parameters in Phase 1
6. Policy for future extensions
7. Other advices and recommendations

At this time, we discussed subjects 1 and 2, and deferred the discussion on subjects 3 –

7 until the next meeting.

For the neutrino oscillation experiment (LOI-12), we have come to the following conclusions.

- We strongly endorse the scientific case of the JHF- ν experiment. The primary purpose of this experiment is to discover a $\nu_\mu \rightarrow \nu_e$ oscillation. Without it, the whole picture of the neutrino mixing is incomplete. The JHF- ν experiment is in a unique and the best position for the discovery, because the detector (Super Kamiokande) already exists, and with the new JHF accelerator, it will have the highest sensitivity in the world. The experiment can also measure other oscillation parameters with the highest precision. In addition, their future plan has a potential to study or discover CP violation in the lepton sector.
- We also recognize the urgency of the experiment.
- We strongly support the budget request for the construction of the beamline submitted by KEK and the project team.
- We also recognize the importance of the foreign contributions for building the beamline and detectors.
- We recommend to have a technical advisory committee (TAC) to review some critical elements in the neutrino beamline.

As for the subject 1, we decided to hear all the presentations in the next meeting. For each LOI, reviewers will be assigned. The reviewers should give comments on the LOI to the contact person(s) well before the meeting, so that the answers will be ready by the meeting.

We also agreed that the member of an LOI being discussed should leave the room.

Next meeting date: June 26, 27, and 28, 2003.